ABSTRACT OF THE DISCLOSURE

METHOD AND SYSTEM FOR FAULT-TOLERANT REMOTE BOOT IN THE PRESENCE OF BOOT SERVER OVERLOAD/FAILURE WITH SELF-THROTTLING BOOT SERVERS

A method and system are presented for facilitating a PXE-compliant (Preboot Execution Environment) remote boot process between clients and multiple available servers on a network. Each server device can respond to a PXE-extended DHCP (Dynamic Host Configuration Protocol) Request message from any client device on the network. Each client can receive responses from the alternate servers, select a server from one of those responses, and be directed by that response to complete the remote boot process from the same server. Each server also employs a self-throttling process to prevent the server from responding to new PXE-extended DHCP request messages from additional clients while the server has insufficient resources to remote boot additional clients with the required quality of service. This automatically redirects those additional clients to other servers that can provide the required quality of service without affecting the remote boot of clients already being serviced by the server.